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Recent results of D0 mesons azimuthal anisotropy using the CMS detector

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In a relativistic heavy ion collision, heavy flavor (charm and bottom) quarks are mostly created via hard processes at the early stage of collisions. We present the latest results of the azimuthal anisotropy coefficients v_n for prompt and non-prompt D0 mesons in PbPb, pPb, and pp collisions from the CMS experiment. The studies are about collectivity phenomena in smaller systems (pp and pPb), searches for the effects of very strong electromagnetic fields created in the initial stages of ultrarelativistic PbPb collisions, and charm quark energy loss in the quark-gluon plasma.

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